

Application No.	Applicant(s)
10/677,099	ZHUANG ET AL.
Examiner	Art Unit
Quoc D. Hoang	2818
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to 9/7/05.	
2. 🔀 The allowed claim(s) is/are <u>1-23 and 47</u> .	
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.	
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date	
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).	
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.	
6. Interview Summary Paper No./Mail Da 08), 7. Examiner's Amend	te
	Examiner Quoc D. Hoang ars on the cover sheet with the co (OR REMAINS) CLOSED in this application is subject to and MPEP 1308. der 35 U.S.C. § 119(a)-(d) or (f). been received. been received in Application No cuments have been received in this of this communication to file a reply ENT of this application. itted. Note the attached EXAMINER as reason(s) why the oath or declarate the submitted. son's Patent Drawing Review (PTO- as Amendment / Comment or in the Comment of the drawing he header according to 37 CFR 1.121(sit of BIOLOGICAL MATERIAL INFOR THE DEPOSIT OF BIOLOGICAL 5. ☐ Notice of Informal Figure 1.121(sit of BIOLOGICAL MATERIAL INFOR THE DEPOSIT OF BIOLOGICAL 8. ☐ Examiner's Amend 8. ☐ Examiner's Statem 9. ☐ Other David Nelms for Patent Examiner

DETAILED ACTION

Response to Amendment

1. Amendment filed on 09/07/2005 has been entered. Claims 1-23 and 47 are pending in the application.

Applicants' remarks have been considered.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should any changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Harris on December 20, 2005.

- In claim 1, line 11, changing "an electrode" into --electrodes--.
- cancel claims 24-46.

Allowable Subject Matter

3. Claims 1-23 and 47 are allowed.

The following is an examiner's statement of reasons for allowance: None of the cited references or combinations thereof disclose or suggest forming two or more contact plugs through said dielectric layer, said plugs being separated from a surface; said one another by forming a conducting layer on said first interlayer dielectric layer; producing electrodes on alternate ones of said two or more contact plugs by etching said conducting layer; coating said electrodes with a ferroelectric layer; etching said ferroelectric layer from said surfaces separating

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said contact plugs; and creating additional electrodes by filling spaces between said electrodes on alternate ones of said contact plugs with a conductive material to establish electrical contact between the plugs and the electrodes as required by the presently claimed invention.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quoc Hoang whose telephone number is (571) 272-1780. The examiner can normally be reached on Monday-Friday from 8.00 AM to 5.00 PM.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone numbers of the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Quoc Hoang Patent examiner/AU 2818

David Nelms
Supervisory Patent Examiner
Technology Centor 2800